1. What does an empty dictionary's code look like?

Ans. x= {} . ie, two curly brackets.

2. What is the value of a dictionary value with the key 'foo' and the value 42?

Ans. {‘foo’:42}

3. What is the most significant distinction between a dictionary and a list?

Ans. Lists are enclosed with square brackets whereas, dictionary is enclosed by curly brackets. Lists always have a specific order whereas in a dictionary they are key and value pair.

4. What happens if you try to access spam['foo'] if spam is {'bar': 100}?

Ans. We will get a Key error.

5. If a dictionary is stored in spam, what is the difference between the expressions 'cat' in spam and 'cat' in spam.keys()?

Ans. There is no deference in both as in both cases ‘cat’ is checked in spam dictionary, if it is the key or not.

6. If a dictionary is stored in spam, what is the difference between the expressions 'cat' in spam and 'cat' in spam.values()?

Ans. 'cat' in spam checks whether there is a 'cat' key in the dictionary, while 'cat' in spam.values() checks whether there is a value 'cat' for one of the keys in spam.

7. What is a shortcut for the following code?

if 'color' not in spam:

spam['color'] = 'black'

Ans. spam.setdefault(‘color’, ‘black’)

8. How do you "pretty print" dictionary values using which module and function?

Ans. Firstly import pprint, then use pprint.pprint(dict\_name).